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| LED1 POLARITY |       |       | LED2 POLARITY |        |       |
|---------------|-------|-------|---------------|--------|-------|
| PIN 7         | PIN 8 | COLOR | PIN 9         | PIN 10 | COLOR |
| -             | +     | GREEN | -             | +      | GREEN |

## SCHEMATIC

RoHS

RJ45

## ELECTRICAL CHARACTERISTICS @ 25°C

### URNS RATIO

TX 1CT : 1

RX 1CT : 1

### CL @ 100kHz/100mVRMS

8mA DC BIAS 350µH MIN.

### INS. LOSS

1MHz TO 100MHz -1.0 dB MAX

### RET. LOSS (MIN)

1MHz-30MHz -18 dB

30MHz-60MHz -18+20LOG(F/30MHz) dB

60MHz-80MHz -12 dB

### CROSS TALK (TX - RX)

500kHz-1MHz -70 dB MIN

10 MHz -50 dB MIN

30 MHz -45 dB MIN

50 MHz -40 dB MIN

100 MHz -35 dB MIN

### CM TO CM REJ

100kHz-1MHz -70 dB MIN

10 MHz -47 dB MIN

30 MHz -42 dB MIN

60 MHz -37 dB MIN

100 MHz -30 dB MIN

### CM TO DM REJ

100kHz-1MHz -70 dB MIN

10 MHz -60 dB MIN

30 MHz -50 dB MIN

60 MHz -45 dB MIN

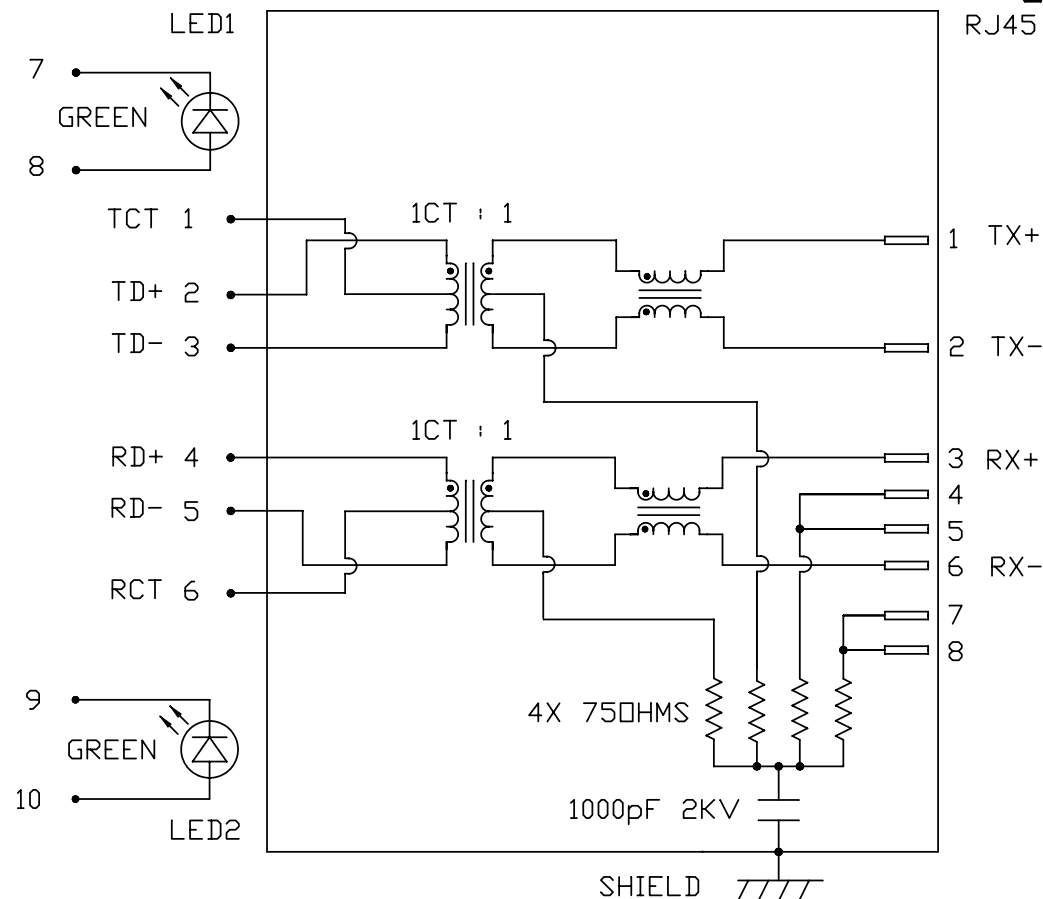
100 MHz -40 dB MIN

### HIPOT (Isolation Voltage):

1500 Vrms

100% OF PRODUCTION TESTED TO COMPLY WITH

IEEE 802.3 ISOLATION REQUIREMENTS.



LED1 and LED2

VF (FORWARD VOLTAGE) IF=20mA GREEN 2.2V TYP.

λD (DOMINANT WAVELENGTH) IF=20mA GREEN 565nm TYP.

ORIGINATED BY DATE  
CHOW WANCHUNG 2012-07-09

DRAWN BY DATE  
TAN QIGUANG 2012-07-09

TITLE MagJack®  
(4 Cores, MDIX, CM Termination)

08B0-1G1T-06-F  
PATENTED

PART NO. / DRAWING NO.  
08B01G1T06-F

FILE NAME  
08B01G1T06-F\_B.DWG

STANDARD DIM.  
TOL. IN INCH

.X  
.XX  
.XXX

[ ] METRIC DIM. AS REFERENCE

UNIT : INCH [mm]

SCALE : N/A

⊕ --- ⊖

REV. : B

SIZE : A4

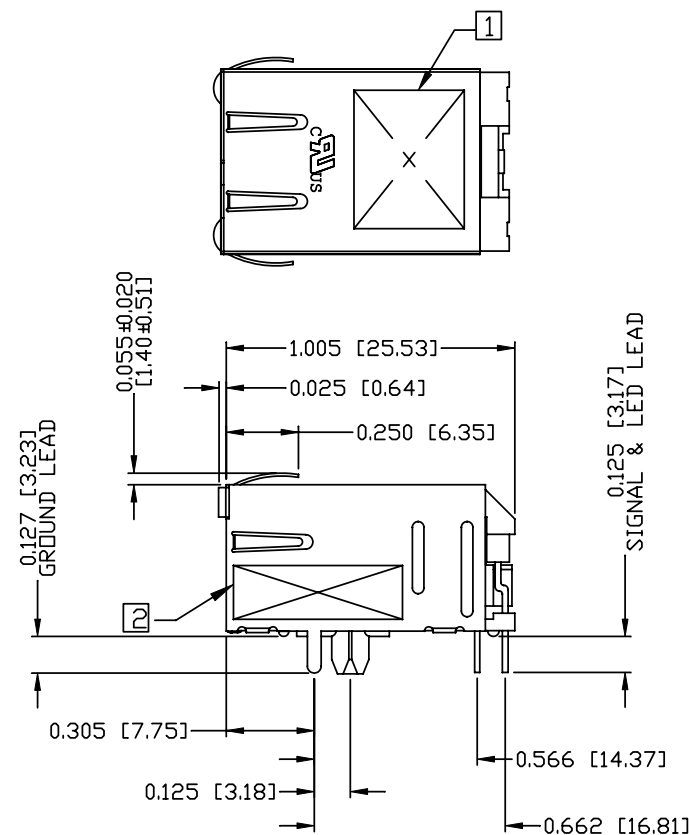
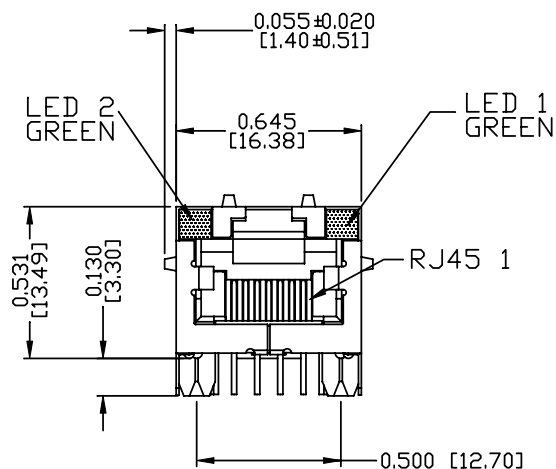
PAGE : 2

**bel**  
COMPONENTS FOR A  
CONNECTED  
PLANET

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## MECHANICAL SPECIFICATION

RoHS



### NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT

FLAMMABILITY RATING UL 94V-0

CONTACTS PLATING: 15 MICRO-INCH HARD GOLD PLATING OR EQUIVALENT.

PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.

METAL SHIELD: PRE-PLATED NICKEL ON COPPER ALLOY.

1 MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER AND DATE CODE.

2 "PATENTED" MARKING.

3. THE PRODUCT IS RoHS COMPLIANT.

4. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

5. THE PRODUCT IS PATENTED. THE PATENT NUMBER IS U.S. PAT. 5,736,910.

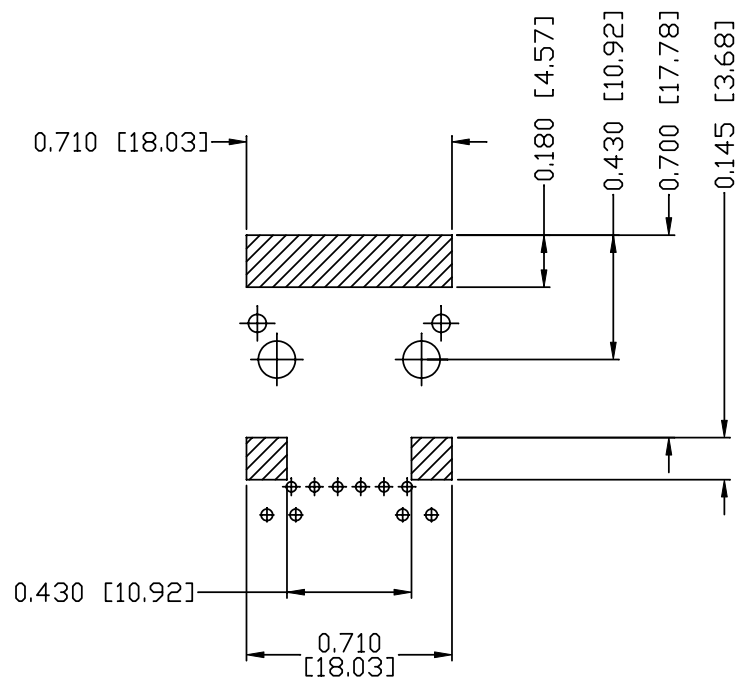
c UL RECOGNIZED - FILE #E196366 AND E169987.

| ORIGINATED BY | DATE       | TITLE                                       | PART NO. / DRAWING NO. | STANDARD DIM. |        | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|------------|---------------------------------------------|------------------------|---------------|--------|------------------------------|-----------|
|               |            |                                             |                        | TOL. IN INCH  |        | UNIT : INCH [mm]             | REV. : B  |
| ANTON LIAO    | 2012-07-09 | MagJack®<br>(4 Cores, MDIX, CM Termination) | 08B01G1T06-F           | .X            |        | SCALE : N/A                  | SIZE : A4 |
| DRAWN BY      | DATE       |                                             | FILE NAME              | .XX           |        |                              | PAGE : 3  |
|               |            |                                             |                        | .XXX          | ±0.010 |                              |           |
| HE ZHEN       | 2012-07-09 | 08B0-1G1T-06-F<br>PATENTED                  | 08B01G1T06-F_B.DWG     |               |        |                              |           |

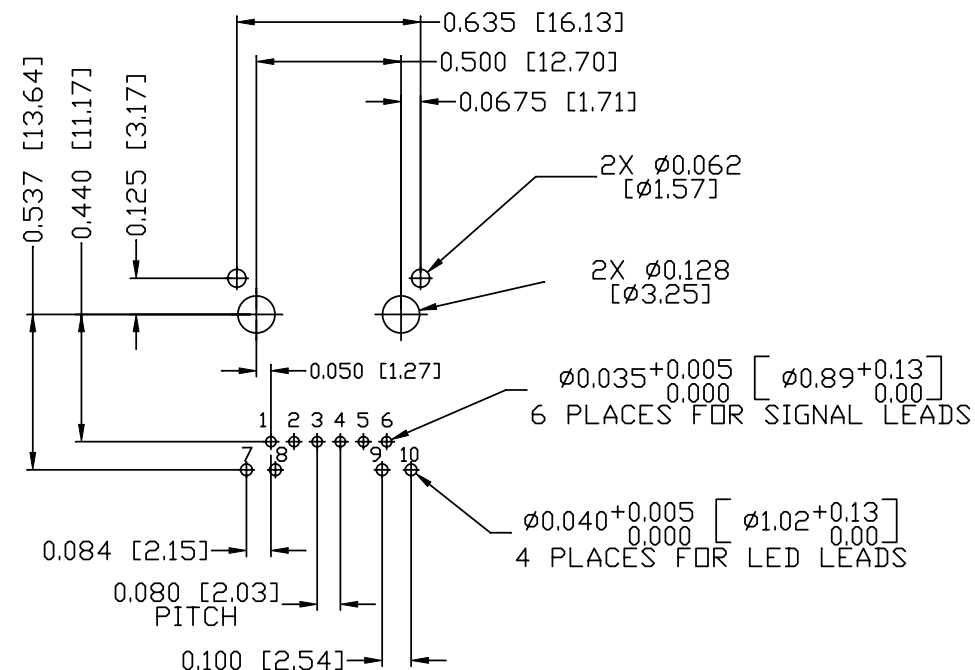
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# RECOMMENDED PCB FOOTPRINT COMPONENT SIDE VIEW



## NOTES:

THE SHADED AREA ON THE CUSTOMER BOARD ARE  
RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR  
COMPONENT PAD.

| ORIGINATED BY | DATE       | TITLE                                       | PART NO. / DRAWING NO. | STANDARD DIM.<br>TOL. IN INCH | [ ] METRIC DIM. AS REFERENCE |           |
|---------------|------------|---------------------------------------------|------------------------|-------------------------------|------------------------------|-----------|
|               |            |                                             |                        |                               | UNIT : INCH [mm]             | REV. : B  |
| ANTON LIAO    | 2012-07-09 | MagJack®<br>(4 Cores, MDIX, CM Termination) | 08B01G1T06-F           | .X                            | SCALE : N/A                  | SIZE : A4 |
| DRAWN BY      | DATE       | TITLE                                       | FILE NAME              | .XX                           |                              | PAGE : 4  |
|               |            |                                             |                        | .XXX                          |                              |           |
| HE ZHEN       | 2012-07-09 | 08B0-1G1T-06-F<br>PATENTED                  | 08B01G1T06-F_B.DWG     | ±0.004                        |                              |           |

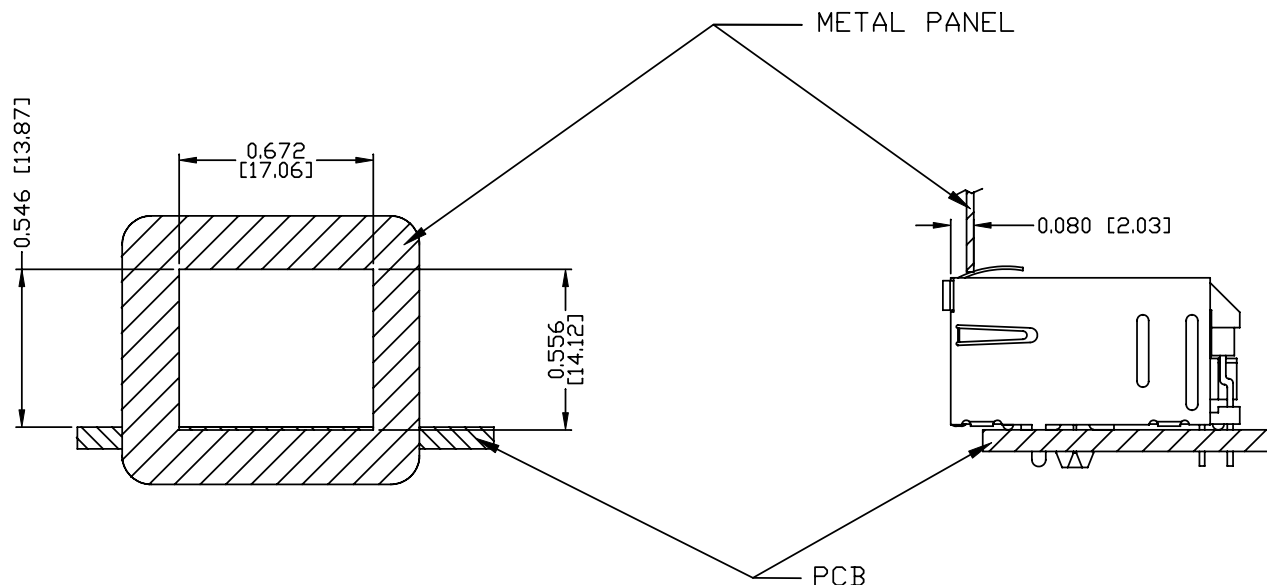


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# SUGGESTED PANEL OPENING



## NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION. IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

## PACKING INFORMATION

PACKING TRAY : 0200-9999-D4 (TOP)

0200-9999-D5 (BOTTOM)

PACKING QUANTITY : 60 PCS FINISHED GOODS PER TRAY

11 TRAYS (660 PCS FINISHED GOODS) PER CARTON BOX

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX  
(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

| ORIGINATED BY |  | DATE                                                                                                                                                                  | TITLE<br>MagJack®<br>(4 Cores, MDIX, CM Termination)<br>08B0-1G1T-06-F<br>PATENTED | PART NO. / DRAWING NO.<br>08B01G1T06-F | STANDARD DIM.<br>TOL. IN INCH |                                                                                       | [ ] METRIC DIM. AS REFERENCE |           | <br>COMPONENTS FOR A<br>CONNECTED<br>PLANET |
|---------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|
| ANTON LIAO    |  | 2012-07-09 <th colspan="2">.X</th> <th>UNIT : INCH [mm]</th> <td>REV. : B</td>                                                                                        |                                                                                    |                                        | .X                            |                                                                                       | UNIT : INCH [mm]             | REV. : B  |                                                                                                                                  |
| DRAWN BY      |  | DATE                                                                                                                                                                  |                                                                                    |                                        | .XX                           |                                                                                       | SCALE : N/A                  | SIZE : A4 |                                                                                                                                  |
| HE ZHEN       |  | 2012-07-09 <th colspan="2">.XXX</th> <td>±0.004</td> <td></td> <td>PAGE : 5</td> | .XXX                                                                               |                                        | ±0.004                        |  | PAGE : 5                     |           |                                                                                                                                  |
|               |  |                                                                                                                                                                       | FILE NAME                                                                          |                                        | 08B01G1T06-F_B.DWG            |                                                                                       |                              |           |                                                                                                                                  |

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PLANET